PTO/SB/01 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032

BP3448

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION			First Named Inventor	Dr. Kelly Brian Came	ron		
			COMPLETE IF KNOWN				
(37 CF	R 1.63)	<u> </u>	Application Number				
Declaration	Declara	tion	Filing Date				
Submitted, OR With Initial		ed after Initial curcharge	Art Unit		,		
Filing	(37 CFF required	R 1.16 (e))	Examiner Name				
I hereby declare that:							
Each inventor's residence, mailing address, and citizenship are as stated below next to their name.							
I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
Efficient LDPC code d	ecoding wit	h new minus o	perator in a finite	precision radix s	ystem		
the enceification of which		(Title of the	Invention)				
the specification of which is attached hereto							
OR	Γ		1				
was filed on (MM/DD/YYYY) as United States Application Number or PCT International							
Application Number		and was amended	d on (MM/DD/YYYY)		(if applicable).		
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as							
amended by any amendment specifically referred to above.							
I acknowledge the duty to discontinuation-in-part application							
and the national or PCT intern	ational filing da	te of the continuation	on-in-part application.				
I hereby claim foreign priority inventor's or plant breeder's ri							
country other than the United	States of Amer	ica, listed below an	d have also identified b	elow, by checking the	box, any foreign		
application for patent, inventor before that of the application of			ate(s), or any PC1 inter	national application na	aving a filing date		
Prior Foreign Application Number(s)	Country	Foreign Filing (MM/DD/YY			Copy Attached? No		
HAIIING((3)	- Journal y	(INITIDDITI	T T		Ä		
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			-				
Additional foreign applicat	tion numbers a	re listed on a supple	emental priority data she	eet PTO/SR/02B attac	hed hereto		
LII / Gallional foreign applicat		o.ca on a supple	montal phonty data site	SCC. TOTODIOZD BILAC	nou noroto.		

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DECLARATION — Utility or Design Patent Application

irect all correspondence to: Customer Number:		34	1399 OR OCCURSION			ondence address below					
Name Garlick Harrison & Markison LLP											
Address						 _					
P.O. Box 160727											
Sity				State					ZIP		
Austin Texas 78716-0727						78716-0727					
Country											
USA	(512) 825-1145		15	(512) 394-005			394-00	54	4		
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.											
NAME OF SOLE OR FIRST IN	VENTOR:			-tition	has he	en filed	for thi	e unsian	ned inventor		
Given Name			<u> </u>	etition has been filed for this unsigned inventor Family Name					ed inventor		
(first and middle [if any]) Dr. Kelly Brian				or Surname Cameron			neron /				
Inventor's Signature July James 2/13/6/					Date 2/13/2/						
Residence: City	State			Country Citizen				Citizen	ıship		
rvine	CA			USA USA				USA			
Mailing Address 4171 Blackfin											
City	State		ZIP				Country				
Irvine	CA			92620				USA			
NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor											
Given Name						mily Na					
(first and middle [if any]) Ha	au Thien				or	Surnan	ne 	Tra			
Inventor's Signature How T. Tran Date 2/12/04											
Residence: City	State Country						Citizen				
rvine	CA			USA			USA				
Mailing Address 19 Purple Sage											
City	State			ZIP			Country				
Irvine	CA			92612 USA				USA			
Additional inventors or a legal rep	presentative are bei	ng named on the	sı	uppleme	ental shee	et(s) PTO	/SB/02A	or 02LR a	attached hereto.		

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DECLARATION		ADDITION/ Supplementa		TOR(S)	Page ¹	of -1
		·				
Name of Additional Joint Inventor, if any:		☐ A petition	on has been f	iled for this ur	nsigned inv	rentor
Given Name (first and middle (if any)		Family Name or Surname				
Ba-Zhong		S	hen, Ph	.D.		
Inventor's Signature				12/04		
Irvine CA State		USA Country			USA Citizenship	
22 Wyoming Mailing Address						
Mailing Address						
Irvine City	CA State		92606 Zip		USA Country	
Name of Additional Joint Inventor, if any:		☐ A petition	on has been f	iled for this ur	nsigned inv	entor
Given Name (first and middle (if any)	Family Name or Surname					
Inventor's Signature		Date				
Residence: City State		e Country				Citizenship
Mailing Address		.=				
Mailing Address						
City	State		Zip		Country	
Name of Additional Joint Inventor, if any:		A petition	on has been f	iled for this ur	nsigned inv	entor
Given Name (first and middle (if any)			Famil	y Name or Su	ırname	
Inventor's Signature		Date				
Residence: City	State		Country			Citizenship
Mailing Address						
Mailing Address						
City State		Zin			Country	

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Phone: 949-450-8700 Fax: 949-450-8710

May 20, 2003

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Intellectual Property Portfolio Manager, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

Henry Samueli, Ph.D.

Chief Technical Officer and Co-Chairman

POWER OF ATTORNEY FROM ASSIGNEE

16215 Alton Parkway, Irvine, Ca interest for the United States of	ornia corporation having a principal place of business at lifornia 92618-7013, is assignee of the entire right, title and America (as defined in 35 U.S.C. § 100), by reason of an inted on of an invention known as
Efficient LDPC code decoding system (Attorney Docket No. Bl	with new minus operator in a finite precision radix (23448)
which is disclosed and claimed in	a patent application of the same title by the inventor(s)
	Thien Tran, and Ba-Zhong Shen, Ph.D.
(said application filed on Application Number	at the U.S. Patent and Trademark Office, having).
Markison, LLP (USPTO CN 34 divisional, continuation-in-part, c	e U.S. attorneys/agents associated with Garlick, Harrison & 1399) to prosecute this application and any continuation, or reissue application thereof, and to transact all business in Office connected therewith, such attorneys/agents currently
James A. Harrison Reg Timothy W. Markison Reg Shayne X. Short, Ph.D. Reg William W. Kidd Reg Robert A. McLauchlan III Reg The Assignee hereby grants sai	g. No. 36,520 g. No. 40,401 g. No. 33,534 g. No. 45,105 g. No. 31,772 g. No. 44,924 d attorneys/agents the power to insert on this Power of a that may be necessary or desirable in order to comply with
the rules of the U.S. Patent and T	rademark Office.
Please send correspondence to:	Garlick Harrison & Markison LLP P.O. Box 160727 Austin, Texas 78716-0727.
Please direct phone calls to: Shay	ne X. Short, Ph.D. (512) 825-1145.
FOR:	Broadcom Corporation
SIGNATURE:	
BY:	
TITLE:	
DATE:	

Certificate Under 37 CFR 3.73(b)

Applicants:

Dr. Kelly Brian Cameron

Hau Thien Tran

Ba-Zhong Shen, Ph.D.

Entitled: EFFICIENT LDPC CODE DECODING WITH NEW MINUS OPERATOR IN A FINITE PRECISION RADIX SYSTEM

Application No.	Filing Date:
Broadcom Corporation	a, California Corporation
(Name of Assignee)	(Type of Assignee)
states that it is:	
1. X the assignee of the entire right, title, and int	erest; or
2. an assignee of an undivided part interest	
in the patent application/patent identified above by v	irtue of either:
A X An Assignment for the inventor(s) of the pa	tent application/patent identified above. The assignment
was recorded in the Patent and Trademark	Office at Reel, Frame, or for which a
copy thereof is attached.	
OR	
'\ '\ -	tent application/patent identified above to the current
assignee as shown below:	т.
1. From The document was recorded in the	
	For which a copy thereof is attached. To:
The document was recorded in the	
	For which a copy thereof is attached.
3. From	
The document was recorded in the	Patent and Trademark Office at
	For which a copy thereof is attached.
Additional documents in the chain	of title are listed on a supplemental sheet.
X Copies of assignments or other documents	in the chain of title are attached.
	original assignment document or a true copy of the original
	ssignment Division in accordance with 37 CFR Part 3, if
the assignment is to be recorded in	the records of the PTO. See MPEP 302-302.8]
The undersigned (whose title is supplied below) is e	empowered to act on hehalf of the assignee
The undersigned (whose thie is supplied below) is c	impowered to det on behalf of the assignee.
Date:	
Nama	
Name:	· · · · · · · · · · · · · · · · · · ·
Title:	
Signature:	